Heptatonic Scales

Additional documents & scales

1	♭2	2	♯2 ♭3	3	4	♯4 ♭5	5	♯5 ♭6	6	♯6 ♭7	7	1
			♯2		♯3	♯4		♯5		♯6		
1		2		3	4		5		6		7	1
	♭2		♭3	♭4		♭5		♭6		♭7		
		♭♭3					♭♭6		♭♭7			

Daniel Mura
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For more documents on ***Scales***, click here :

Docs, Charts & Diagrams [Google Drive]

Intervals

R	m2	M2 d3	A2 m3	M3 d4	A3 P4	A4 d5	P5 d6	A5 m6	M6 d7	A6 m7	M7	R

1	♭2	2 ♭♭3	♯2 ♭3	3 ♭4	♯3 4	♯4 ♭5	5 ♭♭6	♯5 ♭6	6 ♭♭7	♯6 ♭7	7	1

			♯2		♯3	♯4		♯5		♯6		
1		2		3	4		5		6		7	1
	♭2		♭3	♭4		♭5		♭6		♭7		
		♭♭3					♭♭6		♭♭7			
	♭9	9	♯9		11	♯11		♭13	13			

Complementary Intervals												
	♭2		2		♭3		3		4		♯4	
	7		♭7		6		♭6		5		♭5	

Intervals

Major Keys	C	C♯ D♭	D	D♯ E♭	E	F	F♯ G♭	G	G♯ A♭	A	A♯ B♭	B	C	Major Keys
C	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	I
G	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	V
D	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	II
A	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	VI
E	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	III
B	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	VII
F♯	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	♯IV
G♭	♭5	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♭5	♭V
D♭	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	♭II
A♭	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	♭VI
E♭	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭III
B♭	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♭VII
F	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	IV
C	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	I

Intervals

Minor Keys	A	A♯ B♭	B	C	C♯ D♭	D	D♯ E♭	E	F	F♯ G♭	G	G♯ A♭	A	Minor Keys
A	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	I
E	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	V
B	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	II
F♯	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	VI
C♯	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	III
G♯	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	VII
D♯	♯4	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♯4	♯IV
E♭	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	♭V
B♭	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	♭II
F	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	♭VI
C	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭III
G	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭VII
D	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	IV
A	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	I

Intervals - Major Keys / Scales hamonization

Major Keys	1	♭2	2	♯2	3	4	♯4 ♭5	5	♯5 ♭6	6	♭7	7	1	♭2	2	♯2 ♭3	3	4	♯4 ♭5	5	♯5 ♭6	6	♯6 ♭7	7	1	Major Keys
I	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	C
♭II	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	D♭
II	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	D
♭III	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	E♭
III	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	E
IV	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	F
♯IV	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	F♯
♭V	♭5	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♭5	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♭5	G♭
V	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	G
♭VI	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	A♭
VI	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	A
♭VII	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	B♭
VII	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	B
I	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	♭2	2	♯2	3	4	♯4	5	♯5	6	♭7	7	1	C

Scales hamonization - Melodic major (Diatonic major modes)

	1	-	2	-	3	4	-	5	-	6	-	7	1	-	2	-	3	4	-	5	-	6	-	7	1	
I	1	-	2	-	3	4	-	5	-	6	-	7	1	-	2	-	3	4	-	5	-	6	-	7	1	I
II	♭7	-	1	-	2	♭3	-	4	-	5	-	6	♭7	-	1	-	2	♭3	-	4	-	5	-	6	♭7	II
III	♭6	-	♭7	-	1	♭2	-	♭3	-	4	-	5	♭6	-	♭7	-	1	♭2	-	♭3	-	4	-	5	♭6	III
IV	5	-	6	-	7	1	-	2	-	3	-	♯4	5	-	6	-	7	1	-	2	-	3	-	♯4	5	IV
V	4	-	5	-	6	♭7	-	1	-	2	-	3	4	-	5	-	6	♭7	-	1	-	2	-	3	4	V
VI	♭3	-	4	-	5	♭6	-	♭7	-	1	-	2	♭3	-	4	-	5	♭6	-	♭7	-	1	-	2	♭3	VI
VII	♭2	-	♭3	-	4	♭5	-	♭6	-	♭7	-	1	♭2	-	♭3	-	4	♭5	-	♭6	-	♭7	-	1	♭2	VII

Scales hamonization - Harmonic major

	1	-	2	-	3	4	-	5	♭6	-	-	7	1	-	2	-	3	4	-	5	♭6	-	-	7	1	
I	1	-	2	-	3	4	-	5	♭6	-	-	7	1	-	2	-	3	4	-	5	♭6	-	-	7	1	I
II	♭7	-	1	-	2	♭3	-	4	♭5	-	-	6	♭7	-	1	-	2	♭3	-	4	♭5	-	-	6	♭7	II
III	♭6	-	♭7	-	1	♭2	-	♭3	♭4	-	-	5	♭6	-	♭7	-	1	♭2	-	♭3	♭4	-	-	5	♭6	III
IV	5	-	6	-	7	1	-	2	♭3	-	-	♯4	5	-	6	-	7	1	-	2	♭3	-	-	♯4	5	IV
V	4	-	5	-	6	♭7	-	1	♭2	-	-	3	4	-	5	-	6	♭7	-	1	♭2	-	-	3	4	V
♭VI	3	-	♯4	-	♯5	6	-	7	1	-	-	♯2	3	-	♯4	-	♯5	6	-	7	1	-	-	♯2	3	♭VI
VII	♭2	-	♭3	-	4	♭5	-	♭6	♭♭7	-	-	1	♭2	-	♭3	-	4	♭5	-	♭6	♭♭7	-	-	1	♭2	VII

Intervals - Minor keys / Scales hamonization

Minor Keys	1	♭2	2	♭3	♭4	4	#4 ♭5	5	#5 ♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	#4 ♭5	5	#5 ♭6	6	♭7	7	1	Minor Keys
I	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	A
♭II	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	B♭
II	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	B
♭III	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	C
III	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	C#
IV	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	D
#IV	#4	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	#4	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	#4	D#
♭V	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	E♭
V	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	E
♭VI	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	F
VI	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	F#
♭VII	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	G
VII	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	G#
I	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	♭2	2	♭3	♭4	4	♭5	5	♭6	6	♭7	7	1	A

Scales hamonization - Melodic minor

	1	-	2	♭3	-	4	-	5	-	6	-	7	1	-	2	♭3	-	4	-	5	-	6	-	7	1	
I	1	-	2	♭3	-	4	-	5	-	6	-	7	1	-	2	♭3	-	4	-	5	-	6	-	7	1	I
II	♭7	-	1	♭2	-	♭3	-	4	-	5	-	6	♭7	-	1	♭2	-	♭3	-	4	-	5	-	6	♭7	II
♭III	6	-	7	1	-	2	-	3	-	#4	-	#5	6	-	7	1	-	2	-	3	-	#4	-	#5	6	♭III
IV	5	-	6	♭7	-	1	-	2	-	3	-	#4	5	-	6	♭7	-	1	-	2	-	3	-	#4	5	IV
V	4	-	5	♭6	-	♭7	-	1	-	2	-	3	4	-	5	♭6	-	♭7	-	1	-	2	-	3	4	V
VI	♭3	-	4	♭5	-	♭6	-	♭7	-	1	-	2	♭3	-	4	♭5	-	♭6	-	♭7	-	1	-	2	♭3	VI
VII	♭2	-	♭3	♭4	-	♭5	-	♭6	-	♭7	-	1	♭2	-	♭3	♭4	-	♭5	-	♭6	-	♭7	-	1	♭2	VII

Scales hamonization - Harmonic minor

	1	-	2	♭3	-	4	-	5	♭6	-	-	7	1	-	2	♭3	-	4	-	5	♭6	-	-	7	1	
I	1	-	2	♭3	-	4	-	5	♭6	-	-	7	1	-	2	♭3	-	4	-	5	♭6	-	-	7	1	I
II	♭7	-	1	♭2	-	♭3	-	4	♭5	-	-	6	♭7	-	1	♭2	-	♭3	-	4	♭5	-	-	6	♭7	II
♭III	6	-	7	1	-	2	-	3	4	-	-	#5	6	-	7	1	-	2	-	3	4	-	-	#5	6	♭III
IV	5	-	6	♭7	-	1	-	2	♭3	-	-	#4	5	-	6	♭7	-	1	-	2	♭3	-	-	#4	5	IV
V	4	-	5	♭6	-	♭7	-	1	♭2	-	-	3	4	-	5	♭6	-	♭7	-	1	♭2	-	-	3	4	V
♭VI	3	-	#4	5	-	♭7	-	7	1	-	-	#2	3	-	#4	5	-	6	-	7	1	-	-	#2	3	♭VI
VII	♭2	-	♭3	♭4	-	♭5	-	♭6	♭♭7	-	-	1	♭2	-	♭3	♭4	-	♭5	-	♭6	♭♭7	-	-	1	♭2	VII

Major Keys

Major Keys	1	2	3	4	5	6	7	Minor Keys	Sharps & Flats
C	C	D	E	F	G	A	B	A	-
G	G	A	B	C	D	E	F♯	E	♯
D	D	E	F♯	G	A	B	C♯	B	♯♯
A	A	B	C♯	D	E	F♯	G♯	F♯	♯♯♯
E	E	F♯	G♯	A	B	C♯	D♯	C♯	♯♯♯♯
B	B	C♯	D♯	E	F♯	G♯	A♯	G♯	♯♯♯♯♯
F♯	F♯	G♯	A♯	B	C♯	D♯	E♯	D♯	♯♯♯♯♯♯
G♭	G♭	A♭	B♭	C♭	D♭	E♭	F	E♭	♭♭♭♭♭♭
D♭	D♭	E♭	F	G♭	A♭	B♭	C	B♭	♭♭♭♭♭
A♭	A♭	B♭	C	D♭	E♭	F	G♯	F	♭♭♭♭
E♭	E♭	F	G	A♭	B♭	C	D	C	♭♭♭
B♭	B♭	C	D	E♭	F	G	A	G	♭♭
F	F	G	A	B♭	C	D	E	D	♭
C	C	D	E	F	G	A	B	A	-

Minor Keys

Minor Keys	1	2	♭3	4	5	♭6	♭7	Major Keys	Sharps & Flats
A	A	B	C	D	E	F	G	C	-
E	E	F♯	G	A	B	C	D	G	♯
B	B	C♯	D	E	F♯	G	A	D	♯♯
F♯	F♯	G♯	A	B	C♯	D	E	A	♯♯♯
C♯	C♯	D♯	E	F♯	G♯	A	B	E	♯♯♯♯
G♯	G♯	A♯	B	C♯	D♯	E	F♯	B	♯♯♯♯♯
D♯	D♯	E♯	F♯	G♯	A♯	B	C♯	F♯	♯♯♯♯♯♯
E♭	E♭	F	G♭	A♭	B♭	C♭	D♭	G♭	♭♭♭♭♭♭
B♭	B♭	C	D♭	E♭	F	G♭	A♭	D♭	♭♭♭♭♭
F	F	G	A♭	B♭	C	D♭	E♭	A♭	♭♭♭♭
C	C	D	E♭	F	G	A♭	B♭	E♭	♭♭♭
G	G	A	B♭	C	D	E♭	F	B♭	♭♭
D	D	E	F	G	A	B♭	C	F	♭
A	A	B	C	D	E	F	G	C	-

Circle of Fifths / Forths

⇨ I V II VI III VII ♯IV | ♭V ♭II ♭VI ♭III ♭VII IV I ⇦

Major Keys : Degrees / Intervals

Major Keys	I 1	♭II ♭2	II 2	♯II ♯2	III 3	IV 4	♯IV ♯4	♭V ♭5	V 5	♯V ♯5	♭VI ♭6	VI 6	♭VII ♭7	VII 7	Major Keys
C	C	D♭	D	D♯	E	F	F♯	G♭	G	G♯	A♭	A	B♭	B	C
G	G	A♭	A	A♯	B	C	C♯	D♭	D	D♯	E♭	E	F	F♯	G
D	D	E♭	E	E♯	F♯	G	G♯	A♭	A	A♯	B♭	B	C	C♯	D
A	A	B♭	B	B♯	C♯	D	D♯	E♭	E	E♯	F	F♯	G	G♯	A
E	E	F	F♯	F𝄪	G♯	A	A♯	B♭	B	B♯	C	C♯	D	D♯	E
B	B	C	C♯	C𝄪	D♯	E	E♯	F♮	F♯	F𝄪	G	G♯	A	A♯	B
F♯	F♯	G	G♯	G𝄪	A♯	B	B♯	C♮	C♯	C𝄪	D	D♯	E	E♯	F♯
G♭	G♭	A♭♭	A♭	A	B♭	C♭	C	D♭♭	D♭	D	E♭♭	E♭	F♭	F	G♭
D♭	D♭	E♭♭	E♭	E	F	G♭	G	A♭♭	A♭	A	B♭♭	B♭	C♭	C	D♭
A♭	A♭	B♭♭	B♭	B	C	D♭	D	E♭♭	E♭	E	F♭	F	G♭	G♯	A♭
E♭	E♭	F♭	F	F♯	G	A♭	A	B♭♭	B♭	B	C♭	C	D♭	D	E♭
B♭	B♭	C♭	C	C♯	D	E♭	E	F♭	F	F♯	G♭	G	A♭	A	B♭
F	F	G♭	G	G♯	A	B♭	B	C♭	C	C♯	D♭	D	E♭	E	F
C	C	D♭	D	D♯	E	F	F♯	G♭	G	G♯	A♭	A	B♭	B	C

Minor Keys : Degrees / Intervals

Minor Keys	I 1	♭II ♭2	II 2	♭III ♭3	♭IV ♭4	IV 4	♯IV ♯4	♭V ♭5	V 5	♯V ♯5	♭VI ♭6	VI 6	♭VII ♭7	VII 7	Minor Keys
A	A	B♭	B	C	D♭	D	D♯	E♭	E	E♯	F	F♯	G	G♯	A
E	E	F	F♯	G	A♭	A	A♯	B♭	B	B♯	C	C♯	D	D♯	E
B	B	C	C♯	D	E♭	E	E♯	F♮	F♯	F𝄪	G	G♯	A	A♯	B
F♯	F♯	G	G♯	A	B♭	B	B♯	C♮	C♯	C𝄪	D	D♯	E	E♯	F♯
C♯	C♯	D	D♯	E	F♮	F♯	F𝄪	G♮	G♯	G𝄪	A	A♯	B	B♯	C♯
G♯	G♯	A	A♯	B	C♮	C♯	C𝄪	D♮	D♯	D𝄪	E	E♯	F♯	F𝄪	G♯
D♯	D♯	E	E♯	F♯	G♮	G♯	G𝄪	A♮	A♯	A𝄪	B	B♯	C♯	C𝄪	D♯
E♭	E♭	F♭	F	G♭	A♭♭	A♭	A	B♭♭	B♭	B	C♭	C	D♭	D	E♭
B♭	B♭	C♭	C	D♭	E♭♭	E♭	E	F♭	F	F♯	G♭	G	A♭	A	B♭
F	F	G♭	G	A♭	B♭♭	B♭	B	C♭	C	C♯	D♭	D	E♭	E	F
C	C	D♭	D	E♭	F♭	F	F♯	G♭	G	G♯	A♭	A	B♭	B	C
G	G	A♭	A	B♭	C♭	C	C♯	D♭	D	D♯	E♭	E	F	F♯	G
D	D	E♭	E	F	G♭	G	G♯	A♭	A	A♯	B♭	B	C	C♯	D
A	A	B♭	B	C	D♭	D	D♯	E♭	E	E♯	F	F♯	G	G♯	A

Circle of Fifths / Forths

⇨ I V II VI III VII ♯IV | ♭V ♭II ♭VI ♭III ♭VII IV I ⇦

Tonal chord progressions (Circle of Fifths)

Major keys Minor keys	VII II	III V	VI I	II IV	V ♭VII	I ♭III	IV ♭VI	Sharps & Flats
C Maj / A min	B	E	A	D	G	C	F	-
G Maj / E min	F♯	B	E	A	D	G	C	♯
D Maj / B min	C♯	F♯	B	E	A	D	G	♯♯
A Maj / F♯ min	G♯	C♯	F♯	B	E	A	D	♯♯♯
E Maj / C♯ min	D♯	G♯	C♯	F♯	B	E	A	♯♯♯♯
B Maj / G♯ min	A♯	D♯	G♯	C♯	F♯	B	E	♯♯♯♯♯
F♯ Maj / D♯ min	E♯	A♯	D♯	G♯	C♯	F♯	B	♯♯♯♯♯♯
G♭ Maj / E♭ min	F	B♭	E♭	A♭	D♭	G♭	C♭	♭♭♭♭♭♭
D♭ Maj / B♭ min	C	F	B♭	E♭	A♭	D♭	G♭	♭♭♭♭♭
A♭ Maj / F min	G	C	F	B♭	E♭	A♭	D♭	♭♭♭♭
E♭ Maj / C min	D	G	C	F	B♭	E♭	A♭	♭♭♭
B♭ Maj / G min	A	D	G	C	F	B♭	E♭	♭♭
F Maj / D min	E	A	D	G	C	F	B♭	♭
C Maj / A min	B	E	A	D	G	C	F	-

Modal chord progressions (Circle of Fifths)

Melodic major (Diatonic major scale)							
Degrees	VII	III	VI	II	V	I	IV
Chords	m7♭5	m7	m7	m7	7	M7	M7
Harmonic major							
Degrees	-	-	-	II	V	I	IV
Chords				m7♭5	7	M7	mM7
Melodic minor							
Degrees	-	-	VI	II	V	I	IV
Chords			m7♭5	m7	7	mM7	7
Harmonic minor							
Degrees	-	-	-	II	V	I	IV
Chords				m7♭5	7	mM7	m7
Melodic major ♭2							
Degrees	-	-	-	-	V	I	IV
Chords					7♭5	M7	M7
Harmonic major ♭2 (Byzantine Mode)							
Degrees	-	-	-	-	V	I	IV
Chords					7♭5	M7	mM7
Melodic minor ♭2 (Neapolitan major mode)							
Degrees	-	-	-	-	V	I	IV
Chords					7♭5	mM7	7
Harmonic minor ♭2 (Neapolitan minor mode)							
Degrees	-	-	-	-	V	I	IV
Chords					7♭5	mM7	m7

Pentatonic scales

25 Pentatonic scales / 125 modes - Classification (1)

Division into various groups

1. Basic Modes

8 scales (40 modes)

Scales															2 groups	4 groups
A1	Major M7	1		2		3			5				7	1	Major	M7
B1	Major m7	1		2		3			5			♭7		1		m7
C1	Major M6	1		2		3			5		6			1		M6
D1	Major m6	1		2		3			5	♭6				1		m6
E1	Minor M7	1		2	♭3				5				7	1	Minor	M7
F1	Minor m7	1		2	♭3				5			♭7		1		m7
G1	Minor M6	1		2	♭3				5		6			1		M6
H1	Minor m6	1		2	♭3				5	♭6				1		m6

2. Altered ♭2 Modes

6 scales (30 modes)

Scales															2 groups	4 groups
B2	Major m7 ♭2	1	♭2			3			5			♭7		1	Major	m7
C2	Major M6 ♭2	1	♭2			3			5		6			1		M6
D2	Major m6 ♭2	1	♭2			3			5	♭6				1		m6
F2	Minor m7 ♭2	1	♭2		♭3				5			♭7		1	Minor	m7
G2	Minor M6 ♭2	1	♭2		♭3				5		6			1		M6
H2	Minor m6 ♭2	1	♭2		♭3				5	♭6				1		m6

3. Altered ♭5 Modes

2 scales (10 modes)

Scales															2 groups	4 groups
B3	Major m7 ♭5	1		2		3		♭5				♭7		1	Major	m7
F3	Minor m7 ♭5	1		2	♭3			♭5				♭7		1	Minor	m7

4. Altered ♭2 ♭5 Modes

6 scales (30 modes)

Scales															2 groups	4 groups
B4	Major m7 ♭2 ♭5	1	♭2			3		♭5				♭7		1	Major	m7
C4	Major M6 ♭2 ♭5	1	♭2			3		♭5			6			1		M6
D4	Major m6 ♭2 ♭5	1	♭2			3		♭5		♭6				1		m6
F4	Minor m7 ♭2 ♭5	1	♭2		♭3			♭5				♭7		1	Minor	m7
G4	Minor M6 ♭2 ♭5	1	♭2		♭3			♭5			6			1		M6
H4	Minor m6 ♭2 ♭5	1	♭2		♭3			♭5		♭6				1		m6

5. Additional Modes

3 scales (15 modes)

Scales															2 groups	4 groups
A5	Major m6 M7	1				3			5	♭6			7	1	Major	M7
B5	Major m6 m7	1				3			5	♭6		♭7		1		m7
F5	Minor m6 M7	1			♭3				5	♭6			7	1	Minor	M7

Pentatonic scales

25 Pentatonic scales / 125 modes - Classification (2)

Combination of Modes

Modes		
Major Modes **Minor** Modes	**M7** Modes **m7** Modes **M6** Modes **m6** Modes	**Basic** Modes **Altered ♭2** Modes **Altered ♭5** Modes **Altered ♭2 ♭5** Modes **Additional** Modes

Ces **25 échelles pentatoniques** génèrent **125 modes pentatoniques** (25 x 5) ne comportant pas plus de 2 demi-tons consécutifs ni d'écarts de plus de 4 demi-tons entre deux degrés.
Le mode du 1er degré donne son nom à l'échelle.

Common notes

Basic Modes	2	5			
Altered ♭2 Modes	♭2	5			
Altered ♭5 Modes	2	♭5			
Altered ♭2 ♭5 Modes	♭2	♭5			
Major Modes	3				
Minor Modes	♭3				
M7 Modes	7				
m7 Modes	♭7				
M6 Modes	6				
m6 Modes	♭6				
Additional Modes	5	♭6	**No :**	♭2	2

Pentatonic scales

15 Pentatonic scales / 27 modes (Chart 1)

A1. Major M7	Degree	Scale												
Major M7	I	1		2		3			5				7	1
-	III	1			♭3				5	♭6		♭7		1
-	V	1				3	4		5		6			1

B1. Major m7	Degree	Scale												
Major m7	I	1		2		3			5			♭7		1
-	V	1			♭3		4		5		6			1

C1. Major M6	Degree	Scale												
Major M6 / Gong (China) / Ryõ (Japan)	I	1		2		3			5		6			1
Shang (China) / In asc. (Japan)	II	1		2			4		5			♭7		1
Jue (China)	III	1			♭3		4			#5		♭7		1
Zi (China) / Ritsu (Japan) / Bâc (Vietnam)	V	1		2			4		5		6			1
Yu (China) / Min-Yo (Japan) / Nam (Vietnam)	VI	1			♭3		4		5			♭7		1

D1. Major m6	Degree	Scale												
Major m6	I	1		2		3			5	♭6				1

E1. Minor M7	Degree	Scale												
Minor M7	I	1		2	♭3				5				7	1

F1. Minor m7	Degree	Scale												
Minor m7	I	1		2	♭3				5			♭7		1
-	V	1			♭3		4		5	♭6				1

G1. Minor M6	Degree	Scale												
Minor M6 / Kumoï (Japan)	I	1		2	♭3				5		6			1
In Sen (Japan)	II	1	♭2				4		5			♭7		1

H1. Mineur m6	Degree	Scale												
Minor m6 / Hirajoshi (Japan)	I	1		2	♭3				5	♭6				1
Iwato (Japan)	II	1	♭2				4	♭5				♭7		1
In desc. (Japan)	V	1	♭2				4		5	♭6				1

Pentatonic scales

15 Pentatonic scales / 27 modes (Chart 2)

B2. Major m7 ♭2	Degree	Scale												
Major m7 ♭2	I	1	♭2			3			5				♭7	1

C2. Major M6 ♭2	Degree	Scale												
Major M6 ♭2	I	1	♭2			3			5		6			1

D2. Major m6 ♭2	Degree	Scale												
Major m6 ♭2	I	1	♭2			3			5	♭6				1

F2. Minor m7 ♭2	Degré	Scale												
Minor m7 ♭2 / Pelog	I	1	♭2		♭3				5			♭7		1

G2. Minor M6 ♭2	Degré	Scale												
Minor M6 ♭2 / Balinese scale	I	1	♭2		♭3				5		6			1

H2. Minor m6 ♭2	Degré	Scale												
Minor m6 ♭2	I	1	♭2		♭3				5	♭6				1
Ryu-kyu (Japan)	♭VI	1				3	4		5				7	1

F4. Minor m7 ♭2 ♭5	Degré	Scale												
Hirajoshi [Burrows] (Japan)	♭V	1				3		♯4	5		6			1

Pentatonic scales

15 Pentatonic scales / 27 modes (Structure)

1	♭2	2	♯2 ♭3	3	4	♯4 ♭5	5	♯5 ♭6	6	♭7	7	1	Mode	Name
1	♭2		♭3				5	♭6				1	H2 / I	Minor m6 ♭2
1	♭2		♭3				5		6			1	G2 / I	Minor M6 ♭2 - Balinese scale
1	♭2		♭3				5			♭7		1	F2 / I	Minor m7 ♭2 - Pelog
1	♭2			3			5	♭6				1	D2 / I	Major m6 ♭2
1	♭2			3			5		6			1	C2 / I	Major M6 ♭2
1	♭2			3			5			♭7		1	B2 / I	Major m7 ♭2
1	♭2				4	♭5				♭7		1	H1 / II	Iwato (Japan)
1	♭2				4		5	♭6				1	H1 / V	In desc. (Japan)
1	♭2				4		5			♭7		1	G1 / II	In Sen (Japan)
1		2	♭3				5	♭6				1	H1 / I	Minor m6 / Hirajoshi (Japan)
1		2	♭3				5		6			1	G1 / I	Minor M6 / Kumoï (Japan)
1		2	♭3				5			♭7		1	F1 / I	Minor m7
1		2	♭3				5				7	1	E1 / I	Minor M7
1		2		3			5	♭6				1	D1 / I	Major m6
1		2		3			5		6			1	C1 / I	Major M6 / Gong (China) / Ryõ (Japan)
1		2		3			5			♭7		1	B1 / I	Major m7
1		2		3			5				7	1	A1 / I	Major M7
1		2			4		5		6			1	C1 / V	Zi (China) / Ritsu (Japan) / Bâc (Vietnam)
1		2			4		5			♭7		1	C1 / II	Shang (China) / In asc. (Japan)
1			♭3		4		5	♭6				1	F1 / V	-
1			♭3		4		5		6			1	B1 / V	-
1			♭3		4		5			♭7		1	C1 / VI	Yu (China) / Min-Yo (Japan) / Nam (Vietnam)
1			♭3		4			♯5		♭7		1	C1 / III	Jue (China)
1			♭3				5	♭6		♭7		1	A1 / III	-
1				3	4		5		6			1	A1 / V	-
1				3	4		5				7	1	H2 / ♭VI	Ryu-kyu (Japan)
1				3		♯4	5		6			1	F4 / ♭V	Hirajoshi [Burrows] (Japan)

Indian modes - Ragas

10 Thaats - North India

Name	Alt. Degrees	Equivalence		Structure / Tetrachords												
Bilaval	-	A1/I	Ionian	1		2		3	4		5		6		7	1
Khammaja	1	A1/V	Mixolydian	1		2		3	4		5		6	♭7		1
Kalyana	1	A1/IV	Lydian	1		2		3		♯4	5		6		7	1
Bhairava	2	B2/I	Harm. Maj. ♭2	1	♭2			3	4		5	♭6			7	1
Marva	2	A3/IV	Lydian ♭2	1	♭2			3		♯4	5		6		7	1
Kafi	2	A1/II	Dorian	1		2	♭3		4		5		6	♭7		1
Puravi	3	A4/IV	Lydian ♭2 ♭6	1	♭2			3		♯4	5	♭6			7	1
Asavari	3	A1/VI	Aeolian	1		2	♭3		4		5	♭6		♭7		1
Bhairavi	4	A1/III	Phrygian	1	♭2		♭3		4		5	♭6		♭7		1
Todi	4	B4/IV	Phrygian ♯4 ♮7	1	♭2		♭3			♯4	5	♭6			7	1

72 Melakarta - South India

Tetrachords

Groups	No.	Chakra	Melakarta	1st Tetrachord							2nd Tetrachord					
Purva Melakarta (Nos. 1-36)	1	Indu Chakra	1-6	1	♭2	3°			4							
	2	Netra Chakra	7-12	1	♭2		♭3		4							
	3	Agni Chakra	13-18	1	♭2			3	4							
	4	Veda Chakra	15-24	1		2	♭3		4		5	♭6	♭♭7			1
	5	Bana Chakra	25-30	1		2		3	4		5	♭6		♭7		1
	6	Ritu Chakra	31-36	1			♯2	3	4		5	♭6			7	1
Uttara Melakarta (Nos. 37-72)	7	Rishi Chakra	37-42	1	♭2	♭♭3				♯4	5		6	♭7		1
	8	Vasu Chakra	43-48	1	♭2		♭3			♯4	5		6		7	1
	9	Brahma Chakra	49-54	1	♭2			3		♯4	5			♯6	7	1
	10	Disi Chakra	44-60	1		2	♭3			♯4						
	11	Rudra Chakra	61-66	1		2		3		♯4						
	12	Aditya Chakra	67-72	1			♯2	3		♯4						

11 Melakarta parmi les plus utilisés

8 - 15 - 16 - 20 - 22 - 28 - 29 - 36 - 45 - 53 - 65

Références *(sauf, bien sûr, pour les équivalences) :*

Dictionnaire du musicien - M. Honegger (Larousse) / Dictionnaire encyclopédique de la musique - D. Arnold (R. Laffont)

Indian modes - Ragas

1. Purva Melakarta (Nos. 1-36)

1. Indu Chakra	Equivalence		Structure / Tetrachords												
1 Kanakangi	A4/III	Phrygian ♭♭3 ♭♭7	1	♭2	♭♭3			4		5	♭6	♭♭7			1
2 Ratnangi	A3/III	Phrygian ♭♭3	1	♭2	♭♭3			4		5	♭6		♭7		1
3 Ganamurti	(4 consecutive semitones)		1	♭2	♭♭3			4		5	♭6			7	1
4 Vanaspati	E1/II	Mixolydian ♭2 ♭♭3	1	♭2	♭♭3			4		5		6	♭7		1
5 Manavati	(4 consecutive semitones)		1	♭2	♭♭3			4		5		6		7	1
6 Tanarupi	(5 consecutive semitones)		1	♭2	♭♭3			4		5			♯6	7	1
2. Netra Chakra	**Equivalence**		**Structure / Tetrachords**												
7 Senavati	A2/III	Phrygian ♮7	1	♭2		♭3		4		5	♭6	♭♭7			1
8 Hanumatodi	A1/III	Phrygian	1	♭2		♭3		4		5	♭6		♭7		1
9 Dhenuka	D2/I	Harmonic minor ♭2	1	♭2		♭3		4		5	♭6			7	1
10 Natakapriya	C1/II	Dorian ♭2	1	♭2		♭3		4		5		6	♭7		1
11 Kokilapriya	C2/I	Melodic minor ♭2	1	♭2		♭3		4		5		6		7	1
12 Rupavati	(4 consecutive semitones)		1	♭2		♭3		4		5			♯6	7	1
3. Agni Chakra	**Equivalence**		**Structure / Tetrachords**												
13 Gayakapriya	F1/V	Phrygian ♮3 ♭♭7	1	♭2			3	4		5	♭6	♭♭7			1
14 Vakulabharanam	D1/V	Phrygian ♮3	1	♭2			3	4		5	♭6		♭7		1
15 Mayamalavagaula	B2/I	Harmonic major ♭2	1	♭2			3	4		5	♭6			7	1
16 Chakravakam	B1/V	Mixolydian ♭2	1	♭2			3	4		5		6	♭7		1
17 Suryakantam	A2/I	Melodic major ♭2	1	♭2			3	4		5		6		7	1
18 Hatakambari	(4 consecutive semitones)		1	♭2			3	4		5			♯6	7	1
4. Veda Chakra	**Equivalence**		**Structure / Tetrachords**												
19 Jhankaradhwani	A3/VI	Aeolian ♭♭7	1		2	♭3		4		5	♭6	♭♭7			1
20 Natabhairavi	A1/VI	Aeolian	1		2	♭3		4		5	♭6		♭7		1
21 Keeravani	D1/I	Harmonic minor	1		2	♭3		4		5	♭6			7	1
22 Kharaharapriya	A1/II	Dorian	1		2	♭3		4		5		6	♭7		1
23 Gowrimanohari	C1/I	Melodic minor	1		2	♭3		4		5		6		7	1
24 Varunapriya	F4/♭II	Dorian ♯6 ♮7	1		2	♭3		4		5			♯6	7	1
5. Bana Chakra	**Equivalence**		**Structure / Tetrachords**												
25 Mararanjani	E1/V	Mixolydian ♭6 ♭♭7	1		2		3	4		5	♭6	♭♭7			1
26 Charukesi	C1/V	Mixolydian ♭6	1		2		3	4		5	♭6		♭7		1
27 Sarasangi	B1/I	Harmonic major	1		2		3	4		5	♭6			7	1
28 Harikambhoji	A1/V	Mixolydian	1		2		3	4		5		6	♭7		1
29 Dheerashankarabharanam	A1/I	Ionian	1		2		3	4		5		6		7	1
30 Naganandini	D4/♭II	Ionian ♯6	1		2		3	4		5			♯6	7	1
6. Ritu Chakra	**Equivalence**		**Structure / Tetrachords**												
31 Yagapriya	O/V	-	1			♯2	3	4		5	♭6	♭♭7			1
32 Ragavardhani	F4/♭VI	Mixolydian ♯2 ♭6	1			♯2	3	4		5	♭6		♭7		1
33 Gangeyabhushani	F2/♭VI	Ionian ♯2 ♭6	1			♯2	3	4		5	♭6			7	1
34 Vagadheeswari	D4/♭VI	Mixolydian ♯2	1			♯2	3	4		5		6	♭7		1
35 Soolini	D2/♭VI	Ionian ♯2	1			♯2	3	4		5		6		7	1
36 Chalanata	B4/♭II	Ionian ♯2 ♯6	1			♯2	3	4		5			♯6	7	1

Indian modes - Ragas

2. Uttara Melakarta (Nos. 37-72)

7. Rishi Chakra	Equivalence	Structure / Tetrachords												
37 Salagam	(4 semitones gap)	1	♭2	♭♭3				♯4	5	♭6	♭♭7			1
38 Jalarnavam	(4 semitones gap)	1	♭2	♭♭3				♯4	5	♭6		♭7		1
39 Jhalavarali	(4 semitones gap)	1	♭2	♭♭3				♯4	5	♭6			7	1
40 Navaneetam	(4 semitones gap)	1	♭2	♭♭3				♯4	5		6	♭7		1
41 Pavani	(4 semitones gap)	1	♭2	♭♭3				♯4	5		6		7	1
42 Raghupriya	(4 semitones gap)	1	♭2	♭♭3				♯4	5			♯6	7	1
8. Vasu Chakra	**Equivalence**	**Structure / Tetrachords**												
43 Gavambodhi	(4 consecutive semitones)	1	♭2		♭3			♯4	5	♭6	♭♭7			1
44 Bhavapriya	**D4/IV Phrygian ♯4**	1	♭2		♭3			♯4	5	♭6		♭7		1
45 Subhapantuvarali	**B4/IV Phrygian ♯4 ♮7**	1	♭2		♭3			♯4	5	♭6			7	1
46 Shadvidhamargini	**D3/IV Dorian ♭2 ♯4**	1	♭2		♭3			♯4	5		6	♭7		1
47 Suvarnangi	**B3/IV Lydian ♭2 ♭3**	1	♭2		♭3			♯4	5		6		7	1
48 Divyamani	(4 consecutive semitones)	1	♭2		♭3			♯4	5			♯6	7	1
9. Brahma Chakra	**Equivalence**	**Structure / Tetrachords**												
49 Dhavalambari	(4 consecutive semitones)	1	♭2			3		♯4	5	♭6	♭♭7			1
50 Namanarayani	**C4/IV Phrygian ♮3 ♯4**	1	♭2			3		♯4	5	♭6		♭7		1
51 Kamavardhini	**A4/IV Lydian ♭2 ♭6**	1	♭2			3		♯4	5	♭6			7	1
52 Ramapriya	**C3/IV Mixolydian ♭2 ♯4**	1	♭2			3		♯4	5		6	♭7		1
53 Gamanasrama	**A3/IV Lydian ♭2**	1	♭2			3		♯4	5		6		7	1
54 Viswambari	(4 consecutive semitones)	1	♭2			3		♯4	5			♯6	7	1
10. Disi Chakra	**Equivalence**	**Structure / Tetrachords**												
55 Syamalangi	(4 consecutive semitones)	1		2	♭3			♯4	5	♭6	♭♭7			1
56 Shanmukhapriya	**D2/IV Aeolian ♯4**	1		2	♭3			♯4	5	♭6		♭7		1
57 Simhendramadhyamam	**B2/IV Lydian ♭3 ♭6**	1		2	♭3			♯4	5	♭6			7	1
58 Hemavati	**D1/IV Dorian ♯4**	1		2	♭3			♯4	5		6	♭7		1
59 Dharmavati	**B1/IV Lydian ♭3**	1		2	♭3			♯4	5		6		7	1
60 Neetimati	**F2/♭II Lydian ♭3 ♯6**	1		2	♭3			♯4	5			♯6	7	1
11. Rudra Chakra	**Equivalence**	**Structure / Tetrachords**												
61 Kantamani	(4 consecutive semitones)	1		2		3		♯4	5	♭6	♭♭7			1
62 Rishabhapriya	**C2/IV Lydian ♭6 ♭7**	1		2		3		♯4	5	♭6		♭7		1
63 Latangi	**A2/IV Lydian ♭6**	1		2		3		♯4	5	♭6			7	1
64 Vachaspati	**C1/IV Lydian ♭7**	1		2		3		♯4	5		6	♭7		1
65 Mechakalyani	**A1/IV Lydian**	1		2		3		♯4	5		6		7	1
66 Chitrambari	**D2/♭II Lydian ♯6**	1		2		3		♯4	5			♯6	7	1
12. Aditya Chakra	**Equivalence**	**Structure / Tetrachords**												
67 Sucharitra	(4 consecutive semitones)	1			♯2	3		♯4	5	♭6	♭♭7			1
68 Jyotiswaroopini	**F3/♭VI -**	1			♯2	3		♯4	5	♭6		♭7		1
69 Dhatuvardhini	**F1/♭VI Lydian ♯2 ♭6**	1			♯2	3		♯4	5	♭6			7	1
70 Nasikabhooshani	**D3/♭VI Mixolydian ♯2 ♯4**	1			♯2	3		♯4	5		6	♭7		1
71 Kosalam	**D1/♭VI Lydian ♯2**	1			♯2	3		♯4	5		6		7	1
72 Rasikapriya	**B2/♭II Lydian ♯2 ♯6**	1			♯2	3		♯4	5			♯6	7	1

Symmetric scales

16 scales / 38 modes (1)

2 Degrees *1 mode*

Name	Degrees	Scale												
SM-2	All	1	-	-	-	-	-	♯4	-	-	-	-	-	1

3 Degrees *1 mode*

Name	Degrees	Scale												
SM-3	All	1	-	-	-	3	-	-	-	♯5	-	-	-	1

4 Degrees - No. 1 *2 modes*

Name	Degrees	Scale												
SM-4.1a	I - ♯IV	1	♭2	-	-	-	-	♯4	5	-	-	-	-	1
SM-4.1b	♭II - V	1	-	-	-	-	4	♭5	-	-	-	-	7	1

4 Degrees - No. 2 *2 modes*

Name	Degrees	Scale												
SM-4.2a	I - ♯IV	1	-	2	-	-	-	♯4	-	♯5	-	-	-	1
SM-4.2b	II - ♯V	1	-	-	-	3	-	♯4	-	-	-	♭7	-	1

4 Degrees - No. 3 *1 mode*

Name	Degrees	Scale												
SM-4.3	All	1	-	-	♭3	-	-	♭5	-	-	♭♭7	-	-	1

6 Degrees - No. 1 (Whole-tone) *1 mode*

Name	Degrees	Scale												
SM-6.1 - Whole-tone scale	All	1	-	2	-	3	-	♯4	-	♯5	-	♭7	-	1

6 Degrees - No. 2 (2 consecutive semitones / Serie 1) *3 modes*

Name	Degrees	Scale												
SM-6.2a	I - ♯IV	1	♭2	-	♭3	-	-	♯4	5	-	6	-	-	1
SM-6.2b	II♭ - V	1	-	2	-	-	4	♭5	-	♭6	-	-	7	1
SM-6.2c	III♭ - VI	1	-	-	♯2	3	-	♭5	-	-	6	♭7	-	1

6 Degrees - No. 3 (2 consecutive semitones / Serie 2) *3 modes*

Name	Degrees	Scale												
SM-6.3a	I - ♯IV	1	♭2	-	-	3	-	♯4	5	-	-	♭7	-	1
SM-6.3b	♭II - V	1	-	-	♭3	-	4	♭5	-	-	6	-	7	1
SM-6.3c	III - ♭VII	1	-	2	♭3	-	-	♯4	-	♯5	6	-	-	1

6 Degrees - No. 4 (2 consecutive semitones / Serie 3) *2 modes*

Name	Degrees	Scale												
SM-6.4a - Augmented scale	I - II - ♭VII	1	-	-	♯2	3	-	-	5	♭6	-	-	7	1
SM-6.4b - Half Augmented scale	♯II - V - VII	1	♭2	-	-	3	4	-	-	♯5	6	-	-	1

Symmetric scales

16 scales / 38 modes (2)

6 Degrees - No. 5 (3 consecutive semitones / 4 semitones gap)

3 modes

Name	Degrés	Scale												
SM-6.5a - Two-semitone tritone scale	I - ♯IV	1	♭2	2	-	-	-	♯4	5	♭6	-	-	-	1
SM-6.5b	♭II - V	1	♭2	-	-	-	4	♭5	5	-	-	-	7	1
SM-6.5c	II - VI♭	1	-	-	-	3	4	♭5	-	-	-	♭7	7	1

8 Degrees - No. 1 (2 consecutive semitones)

2 modes

Name	Degrees	Scale												
SM-8.1a - Whole-Half Diminished	I - ♭V / ♭III - VI	1	-	2	♭3	-	4	♭5	-	♭6	♭♭7	-	7	1
SM-8.1b - Half-Whole Diminished	II - ♭VI / IV-VII	1	♭2	-	♭3	3	-	♯4	5	-	6	7m	-	1

8 Degrees - No. 2 (3 consecutive semitones)

4 modes

Name	Degrees	Scale												
SM-8.2a	I - ♯IV	1	♭2	2	-	3	-	♯4	5	♭6	-	♭7	-	1
SM-8.2b	♭II - V	1	♭2	-	♭3	-	4	♭5	5	-	6	-	7	1
SM-8.2c	II - VI♭	1	-	2	-	3	4	♭5	-	♭6	-	♭7	7	1
SM-8.2d	III - VII♭	1	-	2	♭3	3	-	♯4	-	♯5	6	♭7	-	1

8 Degrees - No. 3 (4 consecutive semitones)

4 modes

Name	Degrees	Scale												
SM-8.3a	I - ♯IV	1	♭2	2	♭3	-	-	♯4	5	♭6	♭♭7	-	-	1
SM-8.3b	II♭ - V	1	♭2	2	-	-	4	♭5	5	♭6	-	-	7	1
SM-8.3c	II - ♭VI	1	♭2	-	-	3	4	♭5	5	-	-	♭7	7	1
SM-8.3d	III♭ - VI	1	-	-	♭3	3	4	♭5	-	-	6	♭7	7	1

9 Degrees (3 consecutive semitones)

3 modes

Name	Degrees	Scale												
SM-9a	I - III - ♯V	1	♭2	2	-	3	4	♭5	-	♯5	6	♭7	-	1
SM-9b	♭II - IV - VI	1	♭2	-	♭3	3	4	-	5	♯5	6	-	7	1
SM-9c	II - ♭V - ♭VII	1	-	2	♭3	3	-	♯4	5	♭6	-	♭7	7	1

10 Degrees (5 consecutive semitones)

5 modes

Name	Degrees	Scale												
SM-10a	I - ♯IV	1	♭2	2	♭3	3	-	♯4	5	♯5	6	♭7	-	1
SM-10b	♭II - V	1	♭2	2	♭3	-	4	♯4	5	♯5	6	-	7	1
SM-10c	II - ♯V	1	♭2	2	-	3	4	♯4	5	♭6	-	♭7	7	1
SM-10d	III♭ - VI	1	♭2	-	♭3	3	4	♯4	5	-	6	♭7	7	1
SM-10e	III - VII♭	1	-	2	♭3	3	4	♯4	-	♯5	6	♭7	7	1

12 Degrees

1 mode

Name	Degrees	Scale												
SM-12 - Chromatic scale	All	1	♭2	2	♭3	3	4	♭5	5	♭6	6	♭7	7	1